

baby hamster kidney cells, Chinese hamster ovary cell, African green monkey kidney cell, human cervical carcinoma cell, canine kidney cell, human lung cell, human liver cell, or NSO mouse myeloma cell.

14. The method of claim 1, wherein said transfecting step comprises a technique selected from the group consisting of calcium phosphate transfection, DEAE-dextran mediated transfection, microinjection, cationic lipid-mediated transfection, electroporation, ballistic introduction, and infection of said cell with viruses or other infectious agents.

15. The method of claim 1, wherein said transfection efficiency or cell viability is enhanced for production of viral vaccines or biologics.

16. A kit for enhancing transfection efficiency or viability of a cell during transfection, said kit comprising: (a) one or more reagents or devices for transfection; (b) a plant-produced recombinant mammalian transferrin related protein supplement; and (c) instructions for transfecting a cell with a nucleic acid molecule in a cell culture media supplemented with said plant-produced recombinant mammalian transferrin related protein supplement.

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